

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/083079 A1

(51) International Patent Classification⁷: **C12N 15/10**,
1/20, 15/65

(FR). **RADMAN, Miroslav** [FR/FR]; 12bis, Rue Lecocq,
F-94250 Gentilly (FR).

(21) International Application Number:
PCT/EP2005/002066

(74) Agents: **SCHRELL, Andreas** et al.; Gleiss, Grosse,
Schrell & Partner, Leitzstrasse 45, 70469 Stuttgart (DE).

(22) International Filing Date: 26 February 2005 (26.02.2005)

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04360018.8 26 February 2004 (26.02.2004) EP

(71) Applicant (*for all designated States except US*): **MIXIS FRANCE S.A.** [FR/FR]; 166, Boulevard du Montparnasse, F-75014 Paris (FR).

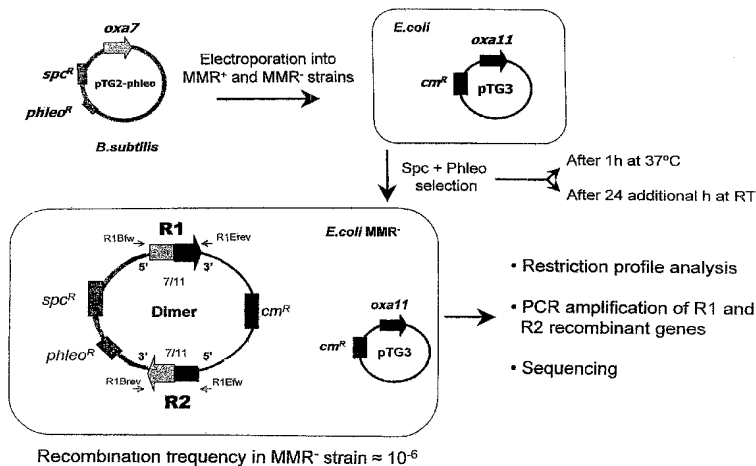
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **RODRIGUEZ-GOMEZ, Ana** [ES/ES]; Calle Doctor Relea n 7, E-39570 Potes (ES). **GALIC, Tatjana** [HR/HR]; Ilica 312A, 10000 Zagreb (HR). **PETITE, Marie-Agnès** [FR/FR]; 180, rue Lafayette, F-75010 Paris (FR). **MATIC, Ivan** [FR/FR]; 51, rue de l'Est, F-92100 Boulogne-Billancourt

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: GENERATION OF RECOMBINANT GENES IN PROKARYOTIC CELLS BY USING TWO EXTRACHROMOSOMAL ELEMENTS



(57) Abstract: The present invention relates in general to methods for generating and detecting recombinant DNA sequences in prokaryotic cells, in particular bacteria, by using two different extrachromosomal elements and extrachromosomal elements, in particular plasmids that can be used for conducting the inventive methods. DNA sequences for which these methods are relevant include protein-encoding and non-coding sequences.

WO 2005/083079 A1

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.